

User Guide for an Electrical Socket with Temperature Monitoring via Internet V3.1.6

Please note:

Before commissioning read the instruction manual very
carefully!

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Wöhlke EDV-Beratung GmbH

Grützmacher Str. 4

28844 Weyhe

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1 User Guide

1.1 Overview



Figure 1: Multiple Socket Outlet

1 Main on/off switch

2-4 Sockets 1,2,3

5 Adapter Power Cable

6 Adapter LAN cable, temperature sensor, RESET button

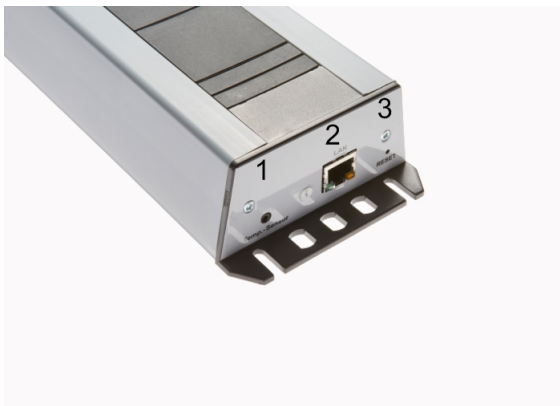


Figure 2: Head side without connecting cable



Figure 3: Head side with connecting cable

1 Adapter temperature sensor

2 Adapter LAN Cable

3 RESET button

1.2 Commissioning

Connect the socket board via LAN-wire with the router. Plug the power plug in the socket. Turn on the socket using the green switch on the front side.¹

1.2.1 Activate DHCP in the router

Wait 30 second until you start a web browser, for example Mozilla Firefox. Enter the hostname of your electrical socket. The preset hostname is named “websteckdose”. By entering **websteckdose** you reach the home page of the electrical socket (tested with FritzBox).

If you have no success with this installation, login to your router and find out the IP address that was assigned to the LAN adapter of your electrical socket. Enter the IP address determined in the form xx.xx.xx.xx in the address bar of your browser. This will take you to the home page of the electrical socket.

1.2.2 Deactivate DHCP in the router

In order to create a connection with the socket, you need to change the settings on your computer according to the following information:

- IP address: 192.168.101.x -> x = any except 6
- IP subnet mask: 255.255.255.0
- Gateway: 192.168.101.254

ATTENTION! *Note on your computer the previous settings, before you change them, as they are important for your internet access. After the commissioning of the socket board you need to recover these settings!*

Type the IP address 192.168.101.6 into your web browser. You are now at the front page of the homepage.

¹For control purposes the electrical outlet number 2 will turn on for a short moment until it will switch back to the set position.

1.2.3 Home Page of the Electrical Socket

On the front page you receive all the important information, such as the current temperature, chosen profile, the latest switching status of the socket, as well as the temperature profile of the last 24 hours. With every restart the temperature profile will start from the beginning again. During operation, the homepage is updated every 10 seconds

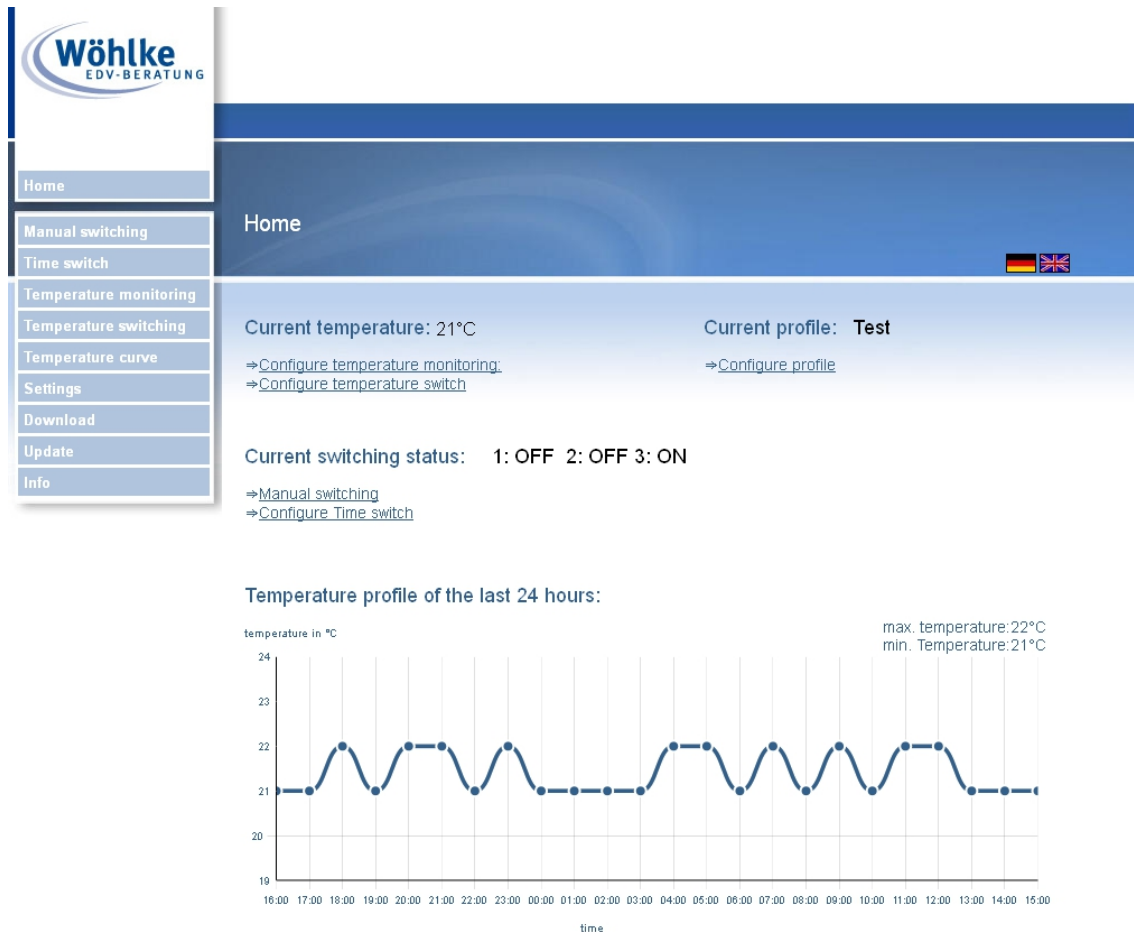


Figure 4: Home Page of the Electrical Socket

When you put the web-electrical-socket into service for the first time, please choose the menu item *Settings* and configure the web-electrical-socket. For the actual switching procedures and temperature monitoring you find the menu items left in the navigation box or respectively as a navigation point on the front page. By clicking on this menu item *Home*, you return to this page at any time.

1.3 Settings

In order to adjust the individual settings to the socket board, choose the menu item *Settings* on the homepage.

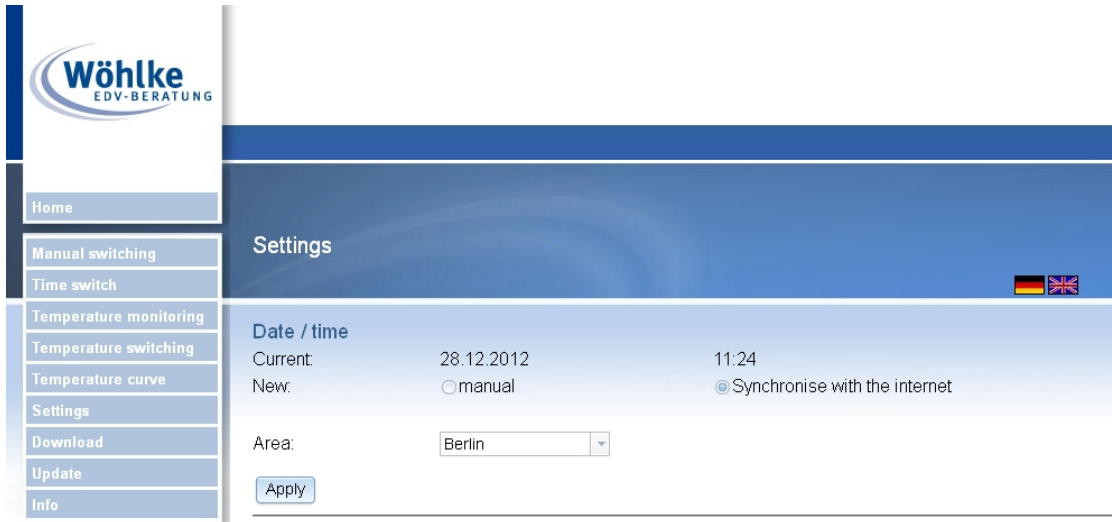


Figure 5: Settings of the socket board

On this page you can change the following settings:

- Date and time
- On-position of the socket board and labeling
- Network connection LAN and / or WLAN
- Hostname
- Password protection for the homepage
- Webserver HTTP-Port
- Priority for simultaneous operation of timer and temperature switching
- Reboot the system

1.3.1 Date and Time

Below the menu item *Settings* you have the possibility to set date and time. You can also state, whether you would like to synchronize the data with the internet. Online synchronization will always start at 12:00 am.

In order to adjust date and time, please choose the desired values and confirm your entry by *Apply*.

Date / time

Current: 05.10.2012 13:10

New: ☒ manual ☐ Synchronise with the internet

05 . 10 . 2012 13 : 10

Area: Berlin

Figure 6: Adjust date and time

1.3.2 On-position and Labeling

You can also turn the socket board on and off. This state, that is chosen here, will be adopted by the socket after the socket board was connected to the electricity grid or has been turned on, or alternatively after a blackout. Choose the desired state for every socket board. You can also enter a label for every single socket board. Confirm your entry with *Apply*.

Switch state

Socket 1: ☐ on ☒ off

Socket 2: ☐ on ☒ off

Socket 3: ☐ on ☒ off

inscription

Klimate

Pump

Heating

Figure 7: Set the on-position

1.3.3 Network Settings

LAN-Konfiguration

☒ LAN

☐ Get IP-address automatically
☒ Using the following IP-address:

IP-address:	192	168	101	6
Netmask:	255	255	255	0
Gateway:	192	168	101	254
DNS:	192	168	101	254

WLAN configuration

☒ WLAN

☐ Get IP-address automatically
☒ Using the following IP-address:

IP-address:	192	168	178	7
Netmask:	255	255	255	0
Gateway:	192	168	178	254
DNS:	192	168	178	254

Network name (SSID):

Security options:

WPA mode:

Key:

Figure 8: Network settings

Now adjust the TCP/IP settings. By ticking on the box before LAN or WLAN you chose, how your electrical outlet shall connect with the network. Both ways can operate parallel. Confirm your settings with *Apply*.

LAN-Configuration Please decide first of all, whether you want to use the connection via DHCP or a LAN adapter with a fixed IP address. If your router is set on DHCP, the IP address can be assigned automatically. By entering the hostname into your browser, you connect with your Electrical Socket (tested with FritzBox). The other way to connect is by using the IP address the router has allocated to the LAN adapter.

If your DHCP has not been set or you want to have a fixed IP address for the LAN adapter, fill out the box *IP-Address*, *Netmask*, *Gateway* and *DNS*. In the box *Gateway* enter your routers IP address, in the box *Netmask* enter the netmask (subnetmask).

In the box *IP-address* please enter the IP address, that the LAN-adapter of your Electrical Socket shall get. If your netmask is called 255.255.255.0 the first three fields of the IP address need to correspond with those from your gateway. The last field is decided by the individual address. Please make sure, that no other device that is connected to this network is being used.

In field *DNS* you generally enter the IP address of your router, but you can also enter an alternative DNS server.

WLAN-Configuration Up to the field *Network name (SSID)* you can precede the same as in the LAN configuration.

When you have already configured the LAN settings, assign a individual IP address for the WLAN adapter.

Then enter the network name (SSID), which is set on your router for WLAN. Spaces in the network name are not supported, so please remove possible spaces from your SSID.

By clicking on the button *Scan network* all picked up networks will be shown. Choose the right network. Preset security options, WPA mode and encryption key. These settings need to correspond with the router's security settings. Your WLAN-password can not contain special characters.

When you confirm your LAN/WLAN configuration entry with *Apply*, a control window will appear. If you confirm again, the changes will be applied.

Network settings check If you have changed the IP address of your computer during the first settings, restore the original settings. Test your computer by checking if it can connect with the internet.

With DHCP: In order to get to the homepage of the socket board, enter your selected hostname into your browser (tested with FritzBox and DHCP), or use the individuell IP address of your electrical socket. Via this entry every computer that uses the same network can access to the homepage of the socket board.

Without DHCP: In order to get to the homepage of the socket board, enter your selected IP address of the socket board into your browser. Via this IP address every computer that uses the same network can access to the homepage of the socket board.

If you cannot connect with the Electrical Socket, check the settings and start maybe again with the first settings.

1.3.4 Hostname

You have the possibility to assign your individual hostname. You need this hostname if you let DHCP automatically assign an IP address. In this case you can connect with your Electrical Socket by entering the hostname into your browser (tested with FritzBox). The preset hostname is "websteckdose". Assign a new hostname and confirm your entry with *Apply*.



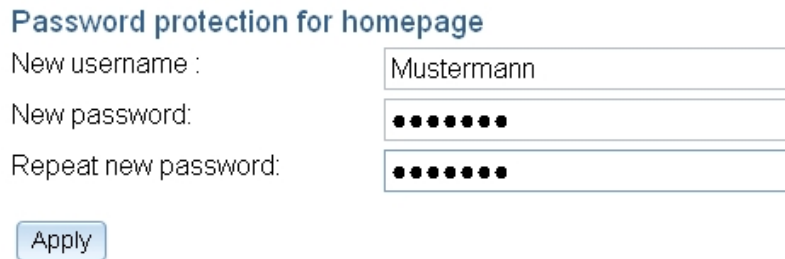
Hostname

Apply

Figure 9: Hostname

1.3.5 Password Protection

You have the possibility to protect the access of your homepage with a password. In order to create a password, act in the following way:



Password protection for homepage

New username :

New password:

Repeat new password:

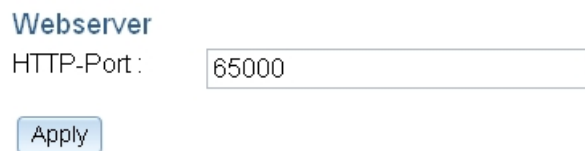
Figure 10: Create a password

On the homepage, select the menu item *Settings* aus. Fill in the fields *New username* and *New password*. Repeat the entry of your password in the appropriate field. Confirm your entry with *Apply*.

1.3.6 Webserver

With the item point *Webserver*, you can set an alternative HTTP port. By default, port 80 is set. If necessary, enter an alternate port and confirm your choice with *apply*. In this case, enter the alternative port address always with a colon when you want to achieve the electrical socket. Examples:

192.168.101.6:65000
websteckdose:65000
http://Steckdose-2006.dyndns.org:65000



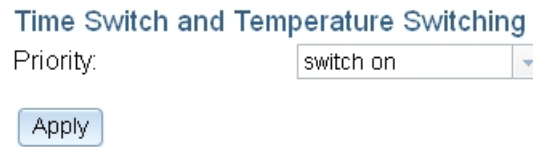
Webserver

HTTP-Port :

Figure 11: Webserver Port

1.3.7 Time Switch & Temperature Switching

This setting is relevant when Time Switch while Temperature Switching is used.



The screenshot shows a settings window titled "Time Switch and Temperature Switching". Below the title, there is a label "Priority:" followed by a dropdown menu. The dropdown menu is currently set to "switch on". Below the dropdown menu, there is a blue button labeled "Apply".

Figure 12: Priority parallel time switch and temperature switching

Possible application: The socket switches at different temperatures. Determined by the timer, the socket should also remain switched on or off in a given period.

Priority: *switch on*

The selected socket is switched on when timer or temperature switch are on, and off when both turn off.

Priority: *switch off*

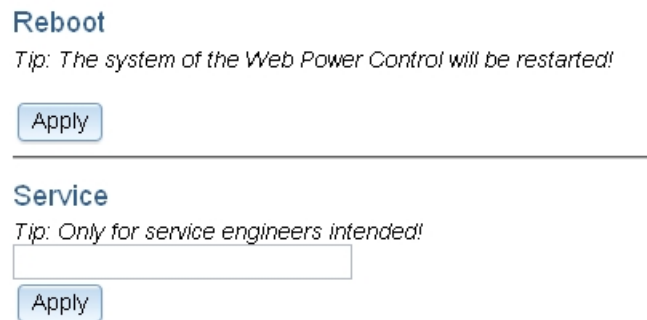
The selected socket is switched off when timer or temperature switch are off, and on when both turn on.

Default is *switch on*. Select the switch priority and confirm your entry by *Apply*. The priority is only important when using timer and temperature switching at the same time.

1.3.8 Further Settings

Below the point *Reboot* you can restart the system,² which should not be mistaken with Reset (chapter 1.11), which sets the settings back to factory settings.

In the area *Service* you can simulate the software e.g. to a previous state, if an update was not successful. Give "'software"' in the box under *Service* and press *Apply*. This allows you to re-run an update.



The screenshot shows a web interface with two sections. The first section is titled 'Reboot' in blue. Below the title is a tip: 'Tip: The system of the Web Power Control will be restarted!'. At the bottom of this section is a blue 'Apply' button. A horizontal line separates this from the second section, which is titled 'Service' in blue. Below the title is a tip: 'Tip: Only for service engineers intended!'. There is a text input box below the tip, and at the bottom of the section is another blue 'Apply' button.

Figure 13: Further settings

²In order to check the settings socket no.2 turns on temporary. Then change again to the set switch position.

1.4 Manual Switching

Select the menu item *Manual switching* on the homepage. The following page will appear:



Figure 14: Manual switching of the socket

The current state of the socket is shown in the socket picture. Using the button, which is located below the socket picture, the individual sockets can be turned on or off.

1.5 Time Switch

The function of a time switch enables you to determine the times at which your socket turns on or off. For every individual socket a single, daily or weekly point in time can be defined, at which it shall turn on or off. These settings will be saved in your profile and you can create up to four profiles.

Select the menu item *Time switch* on the homepage. It appears on the following page:

Wöhlke
EDV-BERATUNG

Home
Manual switching
Time switch
Temperature monitoring
Temperature switching
Temperature curve
Settings
Download
Update
Info

Time switch

Create profile: name: no.: deakt. Info: It can be provided up to four profiles! By the replacement of a profile, all entries of the previous profile are deleted!

create a profile

Select a profile: deakt. Selected profile: Winter

Apply

Figure 15: Choice and creation of a profile

At least one profile needs to be created and afterwards at least one profile needs to be chosen. After the profile is chosen and you pressed *Apply*, the following page appears:

Wöhlke
EDV-BERATUNG

Home

Manual switching

Time switch

Temperature monitoring

Temperature switching

Temperature curve

Settings

Download

Update

Info

Time switch

Create profile: name: no.: Info: It can be provided up to four profiles!
By the replacement of a profile, all entries of the previous profile are deleted!

Select a profile: Selected profile: **Winter**

Chose switching moment:

Socket 1 Klimate	Socket 2 Pump	Socket 3 Heating
One time	One time	One time
Daily	Daily	Daily
Mondays	Mondays	Mondays
Tuesdays	Tuesdays	Tuesdays
Wednesdays	Wednesdays	Wednesdays
Thursdays	Thursdays	Thursdays
Fridays	Fridays	Fridays
Saturdays	Saturdays	Saturdays
Sundays	Sundays	Sundays

Figure 16: Selection of a time switch

Now you can choose which socket should be turned off.

Example: Socket 2: Single switching

Choose below the point *Time switch* -> *Socket 2* -> *One time*.

The following page will appear:

active	date	time	action
☒	23 January 2013	11:00	switch on
☒	23 January 2013	11:30	switch off
☐	23 January 2013	11:03	switch off
☐	23 January 2013	11:03	switch off
☐	23 January 2013	11:03	switch off
☐	23 January 2013	11:03	switch off
☐	23 January 2013	11:03	switch off
☐	23 January 2013	11:03	switch off
☐	23 January 2013	11:03	switch off
☐	23 January 2013	11:03	switch off

back Save

Figure 17: Setting of onetime switching actions

First of all you select the checkbox below the point *active* in the line, in which you want to change settings. Choose a date, time and switching action in this line. You have the possibility to determine ten *onetime* moments at which the socket shall be switched.

Confirm your entry with *Save*. The data that were entered by you will be arranged chronologically. When you want to delete a switching action, remove the checkmark at the beginning of the respective line and click *Save*.

Attention: In case of a blackout or any other incident that prevents the Electrical Socket from switching, there will be an entry `error_log` data. This function is only active during single switching.

Example: The setting of daily switching actions

Choose below the point *Time switch* -> *Socket 3* -> *Daily*.

The following page will appear:

active	time	action
☒	01 : 00	switch on
☒	01 : 30	switch off
☒	06 : 00	switch on
☒	07 : 00	switch off
☐	11 : 07	switch off
☐	11 : 07	switch off
☐	11 : 07	switch off
☐	11 : 07	switch off
☐	11 : 07	switch off
☐	11 : 07	switch off
☐	11 : 07	switch off

back Save

Figure 18: The setting of daily switching actions

First of all you click on the checkbox below the point *active* in the line, in which you want to change settings. Then choose the time at which the socket shall be switched daily and determined the type of switching. You have the possibilities to determine ten points in time, at which the socket shall be switched daily.

Confirm your entry with *Save*. The data that were entered by you will be arranged chronologically. When you want to delete a switching action, remove the checkmark at the beginning of the respective line and click *Save*.

The settings for particular weekdays take place in the same way as the settings

for daily switching. All settings will be implemented parallel. If a socket shall be turned on and off at the same time, then the switching-off-process has priority.

Via *Time switch -> Display error_log* you can display which *onetime* switching actions, for example because of a blackout, could not be conducted. This data can be deleted by the button *delete error_log*.

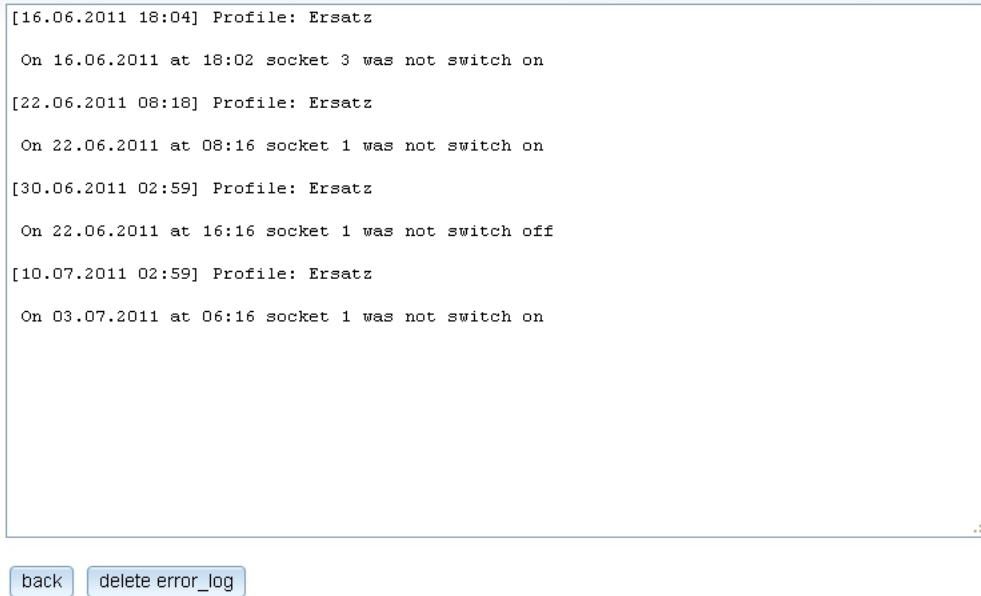


Figure 19: Display error_log

1.6 Temperature Monitoring

Finally, connect the supplied temperature sensor with the front side of the socket. Choose on the homepage the menu item *Temperature monitoring*. The following page will appear:

Wöhlke
EDV-BERATUNG

Home

Manual switching

Time switch

Temperature monitoring

Temperature switching

Temperature curve

Settings

Download

Update

Info

Temperature monitoring

Current temperature : 21°C

Configure Temperature monitoring:

Temperature values

Temperature value 1: 2 °C

Temperature value 2: 25 °C

Additional Email text: temperature

E-Mail-Account

Email address: max.mustermann@gmail.com

Username: max.mustermann@gmail.com

Password:

Mail server: smtp.gmail.com (e.g. mail.provider.org)

Mailserverport: 587 (by default 25)

Receiver

Email 1: max.mustermann@gmx.de

Email 2: mistermann@buero.net

Email 3:

Apply

Figure 20: Temperature indicator and settings

The current temperature will be shown on the socket board (at the temperature sensor). The temperature range of the sensor lies between -20°C and +70°C. On the homepage you have the possibility to enter one or two temperature thresholds. If you do not want to enter any thresholds, please select in the appropriate field *deactivate*. In the following fields you can enter information about your email account and three email addresses. If the entered threshold is exceeded or deceeded,

an email is send to every email address with information about date and time. Confirm your entry with *Apply*. Consequently, a test-email is sent to the entered email addresses.

If temperature monitoring is activ, you will get an e-mail every time you restart the electrical socket.

1.7 Temperature Switching

Temperature switching provides you the possibility to switch a socket, depending on the ambient temperature. Select on the homepage *Temperature switching*. The following page will appear:

Wöhlke
EDV-BERATUNG

Home

Manual switching

Time switch

Temperature monitoring

Temperature switching

Temperature curve

Settings

Download

Update

Info

Temperature switching

Current temperature: 20°C

Configure Temperature switching:

Temperature values	Socket 1	Socket 2	Socket 3
Temperature value 1:	17 °C	10 °C	30 °C
Temperature value 2:	18 °C	11 °C	36 °C

Switch the socket depending on the upper and lower temperature:

Socket 1	Socket 2	Socket 3
☐ Deactivate	☐ Deactivate	☐ Deactivate
☐ Turn on the socket below the temperature threshold and turn off the socket above the temperature threshold (e.g. Heating)	☐ Turn on the socket below the temperature threshold and turn off the socket above the temperature threshold (e.g. Heating)	☐ Turn on the socket below the temperature threshold and turn off the socket above the temperature threshold (e.g. Heating)
☐ Turn on the socket above the temperature threshold and turn off the socket below the temperature threshold (e.g. Climate device)	☐ Turn on the socket above the temperature threshold and turn off the socket below the temperature threshold (e.g. Climate device)	☐ Turn on the socket above the temperature threshold and turn off the socket below the temperature threshold (e.g. Climate device)

Apply

Figure 21: Temperature-dependent switching

The current temperature will be shown. You also have the possibility here to enter two temperature threshold for a switching action of the socket. Further down you can select how the particular socket shall switch.

If you want the socket to turn on below the temperature threshold and to turn off above the temperature threshold, you should select choice number two. If you want the socket to turn on above the temperature threshold and to turn off below the temperature threshold, choose option number three. If the socket shall not switch depending on the ambient temperature, select option number one *deactivate*. In order to apply the settings, confirm with *Apply*.

An example:

A profile is created and you have set socket no.1 and no.2 in a way that they turn on at 8:00 and turn off at 22:00 every day. Now you decide that a temperature sensor should be connected to socket no.3 and that this socket should always turn on above 30°C and turn off below 20°C. Time switch for no.3 is inactiv. So switch off all switching times for the third socket. Now click on the menu item *Temperature switching* and enter temperature value 1: 20°C and temperature value 2: 30°C. Finally, you activate option number three for socket no.3 and then confirm your entry with *Apply*.

Socket no.1 and no.2 continue to turn on at 8:00 and turn off at 22:00, but socket no.3 only turns on, if the ambient temperature of 30°C exceeds and turns off, if the ambient temperature comes below 20°C.

Combination of time switch and temperature switching is also possible, when a profile is selected for the timer. The switching state has priority which is set under *Settings -> Time Switch & Temperature Switching -> Priority*.

1. Priority: *switch on*

Keep the power on or switching on has higher priority. Temperature switching or timer will switch on the socket. The socket will remain on as long as temperature switching **and** timer will switch off.

Application: The socket should switch depending on the temperature. Regardless, it is switched **on** during a certain period determined by the timer.

2. Priority: *switch off*

Keep the power off or switching off has higher priority. Temperature switching or timer will switch off the socket. The socket will remain off as long as temperature switching **and** timer will switch on.

Application: The socket should switch depending on the temperature. Regardless, it is switched **off** during a certain period determined by the timer.

1.8 Temperature curve

The function *Temperature curve* shows the temperature history of the last 24 hours. Optionally, you can also view the progress of the last 7 days or 28 days.

You have also the possibility to download the hourly temperature values in a CSV file up to 28 days.

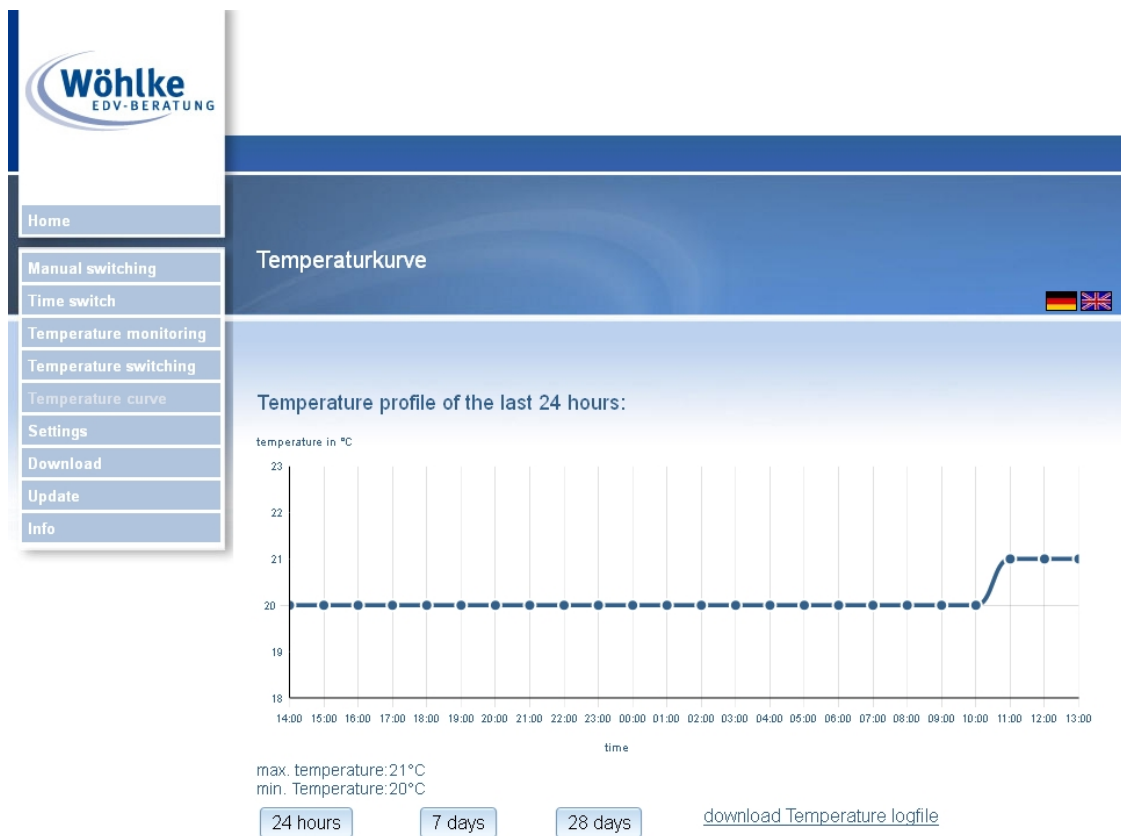


Figure 22: Temperature curve over 24 hours

1.9 Download

The Electrical socket logs all switching operations in a log file that can be read with this function. To view this file, click with the left mouse button on the link *download*. The recent shifts are displayed with time and cause of the circuit (manual, timer or temperature switching). On temperature switching you can also see the current temperature at shifting time.

To save the file on your computer, click the link *download* with the right mouse button. Choose from the following selection to the point *Save file as* Give a destination and confirm with *Save*. The saved file is a text file that can be edited with a simple text editor.

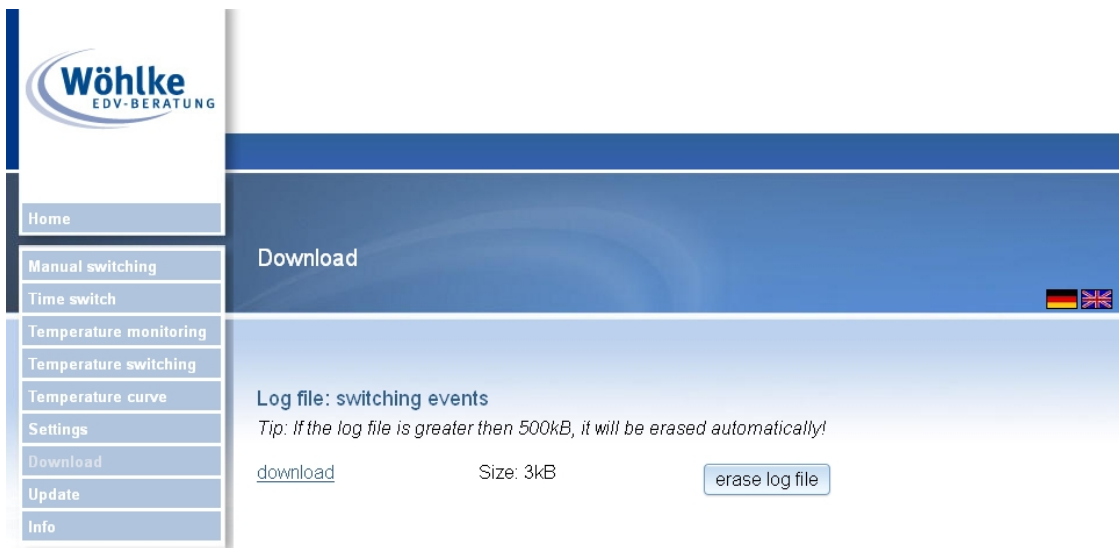


Figure 23: Download log file

A click on the button *erase log file* deletes the contents of the log file.

1.10 Update

The Electrical Socket is equipped with an automatic update function, which makes it possible, if required, to search for updates of the software automatically.

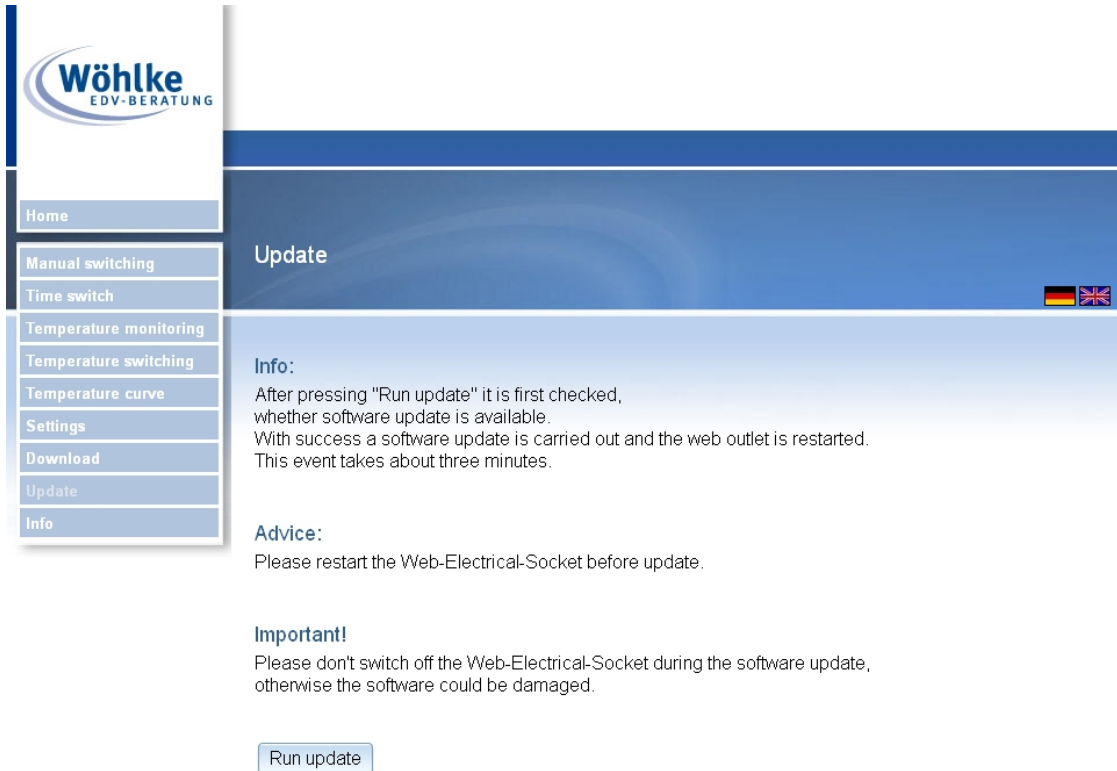


Figure 24: Update function

When you click on the button *Run update*, updates will be downloaded and installed automatically.

1.11 Information



Figure 25: Information

On the information page on the website you can find contact information from the company Wilfried Wöhlke EDV-Beratung GmbH, including telephone number, fax number, email address. On that site you can also find the newest software and hardware versions, as well as MAC- and IP-addresses for LAN and WLAN adapters. The date of the last time synchronization can also be checked. You see, whether the electrical socket is on- or offline.

1.12 Network settings and Password resetting

The socket board is equipped with a reset-key. In case you forget the IP address of your socket and/or your password for the homepage, you can reset the socket with the reset-key back to factory settings. Hereto you have to hold the reset-key for at least 3 seconds. The reset-key is located on the right, next to the LAN-connector and needs to be pressed by a thin object (for example a paperclip).

After reset the following values are set for the socket:

- IP address LAN: 192.168.101.6 (if there is not DHCP)
- IP address WLAN: 192.168.101.7 (not activ)
- Net mask: 255.255.255.0
- Gateway: 192.168.101.254
- DNS: 192.168.101.254
- Connection via: LAN
- DHCP LAN adapter: on
- Hostname: websteckdose
- Username: non
- Password: non
- Webserver HTTP Port: 80

The settings you have created for the time switch, temperature monitoring, and temperature switching, are saved despite the reset.

If you push the rest button longer than 15 seconds, all individual settings in time switching, temperature monitoring and temperature switching will be deleted and set back to factory settings.

A reset differs from a reboot to the effect that resetting, as described, restores it to the factory settings, and a reboot only restarts the system.

1.13 Create a Domain via DynDNS.com

In order to connect to the socket via the internet, the socket needs to be connected to an online router. In addition the IP address of the router needs to be known and the IP address can be assigned automatically and has to be fixed. If a fixed IP address is not assigned to the router by the internet provider, the IP address of the router will be changed every 24 hours.

The service provided by DynDNS can assign a quasi-steadily IP address to the router. Thereby it is made possible to connect to the web-electrical-socket via a domain that was selected by DynDNS. Moreover, the IP address of the web-electrical-socket cannot be obtained automatically, but has to be assigned consistently. In order to obtain a domain, proceed as follows:

Enter in your browser the address *www.dyndns.com*. Select on the homepage the menu item *Sign In* and afterwards select the menu item *Create an Account*.

The screenshot shows the DynDNS.com website's account creation page. At the top, there's a navigation bar with links for 'DNS & Domains', 'Email Services', and 'Performance & Security'. Below this is a search bar with the placeholder text 'What are you looking for?' and a 'Search' button. A yellow banner contains links for 'Why DynDNS.com?', 'Services & Pricing', and 'Support'. On the left side, there's a 'My Account' sidebar with links for 'Create Account', 'Login', 'Lost Password?', and 'My Cart' (showing 0 items). Below the sidebar is a 'WE'RE HIRING' button and a 'Powered by Dyn' logo. The main content area is titled 'Create an account or log in to continue'. It features a registration form with fields for 'Username', 'Password', 'Confirm password', 'Email', and 'Confirm Email'. There's also a 'Security Image' section with a grid of numbers and a text input for 'Enter the numbers from the above image:'. To the right of the main form is a 'Already Registered?' section with 'Username' and 'Password' fields, a 'Log in' button, and a 'Forgot your password?' link. At the bottom of the main form, there's a 'Subscribe to' section with checkboxes for 'DynDNS.com newsletter (1 or 2 per month)' and 'Dyn Inc. press releases'. Below this is a checkbox for 'I agree with the acceptable use policy (AUP) and privacy policy.' and a 'Create Account' button. At the very bottom, there's a link for 'contact us'.

Figure 26: Form Create Account by DynDns.com

Fill out the displayed form. Confirm your entry with *Create Account*. The email address, that you have entered, can only be used once. If there is a problem during the account creation and you try to create an account again, you have to use an alternative email address. Afterwards you will receive an email to the email address, which you have stated in the form. Follow the link in the email and log in with your chosen username and password on DynDNS.

Now select on by one the menu items *My Services* -> *Add Hostname*. Fill out the shown form.

The screenshot shows the DynDNS website interface. At the top, there's a navigation bar with links for 'DNS & Domains', 'Email Services', and 'Performance & Security'. Below this is a search bar. A yellow banner contains links for 'Why DynDNS.com?', 'Services & Pricing', 'Support', and a welcome message for user 'alisee84' with a 'FREE' tag, along with 'My Account', 'My Cart', and 'Log Out' buttons. The main content area is titled 'Add New Hostname' and features a sidebar with 'My Account' and 'My Services' links. The 'My Services' list includes 'Dynamic DNS Pro', 'Internet Guide', 'SLA', 'Premier Support', 'Domain names, DNS hosting, Sendlabs e-mail services', 'Dynamic DNS Hosts', 'Dynect SMB', 'Sendlabs SMTP', 'SSL Certificates', 'Renew Services', 'Auto Renew Settings', and 'Sync Expirations'. The 'Account Settings' and 'Billing' sections are also visible. The main form area contains a message about not having a 'Dynamic DNS Pro service' and a link to 'add Dynamic DNS Pro to your shopping cart'. Below this is a form to add a new hostname with fields for 'Hostname', 'Wildcard', 'Service Type', 'IP Address', 'TTL value', and 'Mail Routing'. The 'Add To Cart' button is at the bottom right.

Figure 27: Create a host on DynDNS

Enter in *Hostname* your individually selected domain name and select a domain ending, so that your domain's name is, for example, Steckdose2006.dyndns.org. In the field *IP-Adresse* your router's IP address will be shown. Confirm your entry with *Add Host*. Now you have registered successfully on dyndns.com.

DDNS must now be enabled on your router. In this case select dyndns.org as your provider. All access and domain name from dyndns.org must also be entered in the router. Finally, a port forwarding in your router is set up, if you use a different

port for your electrical socket other than the default port 80.

You can now connect the homepage of your socket via the selected domain.

Example: **`http://Steckdose-2006.dyndns.org:65000/`**

1.14 Technical Data

- Connections: 1 x Ethernet connection (RJ45), 3 x load current connections, 1 x mains current connection
- Power supply: 230 VAC
- Power consumption: 8 W
- Switching capacity: per Electrical Socket 3600 W, the maximum of 3600 W for all three Sockets must not be exceeded
- Network connection: 10/100 Mbps, WLAN up to 150 Mbps
- Protocols TCP/IP
- Working temperature: 0°C - 50°C
- WLAN transmission standard: 802.11b/g/n, WEP, WPA, WPA2 encoding
- Length: 463 mm
- Width: 95 mm
- Height: 50 mm

1.15 System Requirements

The homepage was tested on the browsers *Internet Explorer 7.0, 8.0 und Firefox 3.6.16* . For the display of the homepage Java Script needs to be activated in your browser.

2 Safety Information

Please consider when putting up, connecting and operating the socket the following hints:

- Put the device on a non-slip mat
- Lay the connections accident-proof
- Do not put the device close to sources of heat, in direct sun light, or close to electrical devices
- Protect the device from wetness, dust, aggressive liquids, and steam
- Connect only to authorized user
- Research has proven that in some cases medical devices can be influenced by wireless signals. For that reason please observe the regulations of medical facilities before using the web-electrical-socket within these facilities.
- Never open this device by yourself, never touch the socket with lacy and metal objects and never carry the device at the connection-cord.
- Never use the device in wet rooms (e.g. bathroom) or in explosion-prone areas
- Do not use the provided temperature sensor in liquids

3 Safety Statement

For any damage or harm that is the result of disregarding this instruction manual, the warranty claim expires. For consequential damage we do not assume liability.

- We do not assume liability for any material and personal damage that is the result of inappropriate operating or disregarding the safety information.
- For security and authorization reason it is not allowed to convert or change the device arbitrarily.
- Please consider the security information and instructional devices for the connected devices.
- Please consider the security information of the individual chapters of this manual instructions.
- Do not let the packing materials laying around carelessly, they could become a dangerous toy for your children.
- The electrical installations and equipment's in industrial facilities must be observed by the security regulations and insurance institutions.
- If you are not aware of a correct connections or may there be any question that have not been answered in the user guide, please contact us!

4 Return of old devices

If the control of a socket board with temperature monitoring becomes worn out, please bring your worn out device to the community recycling center (e.g. recycling depot). The worn out device needs to be disposed separately from your household rubbish. According to the electric and electronic device law the owner of an old device is lawfully upheld to dispose old electric and electronic devices separately from the household rubbish. Please assist and contribute your share to environmental protection by not disposing your old devices in the household trash.

5 DOC – Declaration of Conformity

The company

Wöhlke EDV-Beratung GmbH	
Grützmacher Str. 4	D-28844 Weyhe
Tel: +49-421-802791-0	Fax: +49-421-802791-18
info@woehlke-edv.de	www.woehlke-edv.de

declares hereby that the product

Web-Controlled electrical socket with temperature monitoring via the internet

agrees with the clauses of the following EU-guidelines

89/336/EWG	Electromagnetic compatibility
73/23/EWG	low-voltage directive
93/68/EWG	CE marking

and the following norms were applied

EN 55022:1998+A1, A2	Establishment of information technology: Radio interference properties, limiting values, measurement method
EN 55024:1998+A1, A2	Establishment of information technology: Interference immunity properties, limiting values, testing procedure
EN 61000-3-2:2000	Electromagnetic compatibility Part 3-2: Limiting values for harmonic currents
EN 60950:2000	Security of facilities of the information technology

Weyhe, March 2, 2008

Prof. Dr.-Eng. W. Wöhlke, Business Executive